



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1533.0790002APPLICATION NO.
10/045,072APPLICANT
Sinskey et al.FILING DATE
January 15, 2002GROUP
1652

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
M.M.	AA1	4,275,157	06/23/1981	Tosaka et al.	435	115	07/10/1979
R.R.	AB1	6,171,833	01/09/2001	Sinskey et al.	435	183	12/23/1998
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
R.R.	AL1	EP 0 723 011	07/24/1996	Europe	—	—	Yes No
R.R.	AM1	WO 99/18228	04/15/1999	WIPO	—	—	Yes X No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

R.R.	AR	1	Altschul, S.F. et al., "Basic Local Alignment Search Tool," J. Mol. Biol. 215:403-410, Academic Press, Inc., New York, NY (1990).
R.R.	AS	1	Attwood, P.V., "The Structure and the Mechanism of Action of Pyruvate Carboxylase," Int. J. Biochem. Cell Biol. 27:231-249, Pergamon Press, Exeter, England (1995).
R.R.	AT	1	Brewster, N.K. et al., "Regulation of Pyruvate Carboxylase Isozyme (PYC1, PYC2) Gene Expression in <i>Saccharomyces cerevisiae</i> during Fermentative and Nonfermentative Growth," Arch. Biochem. Biophys. 311:62-71, Academic Press, New York, NY (1994).

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R. Flasher

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

r.r.	AR	3	Gubler, M. et al., "Effects of phosphoenol pyruvate carboxylase deficiency on metabolism and lysine production in <i>Corynebacterium glutamicum</i> ," Appl. Microbiol. Biotechnol. 40:857-863, Springer-Verlag, Berlin, Germany (1994).
r.r.	AS	3	Hanahan, D., "Studies on Transformation of <i>Escherichia coli</i> with Plasmids," J. Mol. Biol. 166:557-580, Academic Press, Inc., New York, NY (1983).
r.r.	AT	3	Jäger, W. et al., "A <i>Corynebacterium glutamicum</i> gene encoding a two-domain protein similar to biotin carboxylases and biotin-carboxyl-carrier proteins," Arch. Microbiol. 166:76-82, Springer-Verlag, Berlin, Germany (1996).

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r.r.	AR	4	Jetten, M.S.M. and Sinskey, A.J., "Characterization of phosphoenolpyruvate carboxykinase from <i>Corynebacterium glutamicum</i> ," <i>FEMS Microbiol. Lett.</i> 111:183-188, Elsevier/North Holland, Amsterdam (1993).
r.r.	AS	4	Keilhauer, C. et al., "Isoleucine Synthesis in <i>Corynebacterium glutamicum</i> : Molecular Analysis of the <i>ilvB-ilvN-ilvC</i> Operon," <i>J. Bacteriol.</i> 175:5595-5603, American Society for Microbiology, Baltimore, MD (1993).
r.r.	AT	4	Koffas, M.A.G. et al., "Sequence of the <i>Corynebacterium glutamicum</i> pyruvate carboxylase gene," <i>Appl. Microbiol. Biotechnol.</i> 50:346-352, Springer-Verlag, Berlin, Germany (September 1998).

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re. re.	AR	5	Koffas, M.A.G., et al., GenEmbl database, Accession No. AF038548, alignment results (September 1998).
re. re.	AS	5	Kondo, H. et al., "Cloning and nucleotide sequence of <i>Bacillus stearothermophilus</i> pyruvate carboxylase," <i>Gene</i> 191:47-50, Elsevier Science Publishers B.V., Amsterdam, Netherlands (May 1997).
re. re.	AT	5	Kumar, G.K. et al., "Involvement and Identification of Tryptophanyl Residue at the Pyruvate Binding Site of Transcarboxylase," <i>Biochem.</i> 27:5978-5983, American Chemical Society, Washington D.C. (1988).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

R.R.	AR	6	Lim, F. et al., "Sequence and Domain Structure of Yeast Pyruvate Carboxylase," <i>J. Biol. Chem.</i> 263:11493-11497, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1988).
R.R.	AS	6	Milrad de Forchetti, S.R. and Cazzulo, J.J., "Some Properties of the Pyruvate Carboxylase from <i>Pseudomonas fluorescens</i> ," <i>J. Gen. Microbiol.</i> 93:75-81, Cambridge University Press, Cambridge, England (1976).
R.R.	AT	6	Momose, H. et al., "On the Transducing Phages in Glutamic Acid-Producing Bacteria," <i>J. Gen. Appl. Microbiol.</i> 22:119-129, Microbiology Research Foundation, Tokyo, Japan (1976).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

R.R.	AR	2	Mukhopadhyay, B. et al., "Purification, Regulation, and Molecular and Biochemical Characterization of Pyruvate Carboxylase from <i>Methanobacterium thermoautotrophicum</i> Strain ΔH," <i>J. Biol. Chem.</i> 273:5155-5166, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (February 1998).
R.R.	AS	2	O'Brien, R.W. et al., "Novel Enzymic Machinery for the Metabolism of Oxalacetate, Phosphoenolpyruvate, and Pyruvate in <i>Pseudomonas citronellolis</i> ," <i>J. Biol. Chem.</i> 252:1257-1263, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1977).
R.R.	AT	2	Park, S.M. et al., "Elucidation of anaplerotic pathways in <i>Corynebacterium glutamicum</i> via ¹³ C-NMR spectroscopy and GC-MS," <i>Appl. Microbiol. Biotechnol.</i> 47:430-440, Springer-Verlag, Berlin, Germany (April 1997).

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R. R.	AR	8	Peters-Wendisch, P.G. et al., "Phosphoenolpyruvate carboxylase in <i>Corynebacterium glutamicum</i> is dispensable for growth and lysine production," <i>FEMS Microbiol. Lett.</i> 112:269-274, Elsevier/North Holland, Amsterdam, Netherlands (1993).				
R. R.	AS	8	Peters-Wendisch, P.G. et al., "C ₃ -Carboxylation as an anaplerotic reaction in phosphoenolpyruvate carboxylase-deficient <i>Corynebacterium glutamicum</i> ," <i>Arch. Microbiol.</i> 165:387-396, Springer-Verlag, Berlin, Germany (1996).				
R. R.	AT	8	Peters-Wendisch, P.G. et al., "Pyruvate carboxylase as an anaplerotic enzyme in <i>Corynebacterium glutamicum</i> ," <i>Microbiology</i> 143:1095-1103, Kluwer Academic/Plenum Publishers, Washington, D.C. (April 1997).				

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r.r.	AR	2	Peters-Wendisch, P.G. et al., "Pyruvate carboxylase from <i>Corynebacterium glutamicum</i> : characterization, expression and inactivation of the <i>pyc</i> gene," <i>Microbiology</i> 144:915-927, Kluwer Academic/Plenum Publishers, Washington, D.C. (April 1998).
r.r.	AS	2	Post, L.E. et al., "Dissection of the Functional Domains of <i>Escherichia coli</i> Carbamoyl Phosphate Synthetase by Site-directed Mutagenesis," <i>J. Biol. Chem.</i> 265:7742-7747, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1990).
r.r.	AT	2	Reyes, O. et al., "'Integron'-bearing vectors: a method suitable for stable chromosomal integration in highly restrictive <i>Corynebacteria</i> ," <i>Gene</i> 107:61-68, Elsevier Science Publishers B.V., Amsterdam, Netherlands (1991).

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	AL						Yes No
	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

re.re.	AR	10	Scrutton, M.C. and Taylor, B.L., "Isolation and Characterization of Pyruvate Carboxylase from <i>Azotobacter vinelandii</i> OP," Arch. Biochem. Biophys. 164:641-654, Academic Press, New York, NY (1974).
re.re.	AS	10	Serwold-Davis, T.M. et al., "Transformation of <i>Corynebacterium diphtheriae</i> , <i>Corynebacterium ulcerans</i> , <i>Corynebacterium glutamicum</i> , and <i>Escherichia coli</i> with the <i>C. diphtheriae</i> plasmid pNG2," Proc. Natl. Acad. Sci. USA 84:4964-4968, National Academy of Sciences of the USA, Washington, D.C. (1987).
re.re.	AT	10	Simon, R. et al., "A Broad Host Range Mobilization System For In Vivo Genetic Engineering: Transposon Mutagenesis in Gram Negative Bacteria," Bio/Technol. 1:784-791, Nature Publishing Co., New York (1983).

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H. Ponski

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	AL						Yes No
	AM						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

r.r.	AR	11	Sonnen, H. et al., "Characterization of pGA1, a new plasmid from <i>Corynebacterium glutamicum</i> LP-6," <i>Gene</i> 107:69-74, Elsevier Science Publishers B.V., Amsterdam, Netherlands (1991).
r.r.	AS	11	Toh, H. et al., "Molecular evolution of phosphoenolpyruvate carboxylase," <i>Plant, Cell and Environ.</i> 17:31-43, Blackwell Scientific Publications, New York, NY (1994).
r.r.	AT	11	Tomioka, N. et al., "Molecular Cloning and Characterization of Ribosomal RNA Genes from a Blue-Green Alga, <i>Anacystis nidulans</i> ," <i>Mol. Gen. Genet.</i> 184:359-363, Springer-Verlag, New York, NY (1981).

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re. re.	AR	12	Tosaka, O. et al., "The Role of Biotin-Dependent Pyruvate Carboxylase in L-Lysine Production," Agric. Biol. Chem. 43(7):1513-1519, Agricultural Chemical Society of Japan, Tokyo, Japan (1979).				
re. re.	AS	12	Towbin, H. et al., "Electrophoretic transfer of proteins from polyacrylamide gels to nitrocellulose sheets: Procedure and some applications," Proc. Natl. Acad. Sci. USA 76:4350-4354, National Academy of Sciences of the USA, Washington, D.C. (1979).				
re. re.	AT	12	Vallino, J.J. and Stephanopoulos, G., "Metabolic Flux Distributions in Corynebacterium glutamicum During Growth and Lysine Overproduction," Biotechnol. Bioeng. 41:633-646, Wiley, New York, NY (1993).				

EXAMINER re. re. Sinskey	DATE CONSIDERED 3/29/04
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re. re.	AR	13	Vertès, A.A. et al., "Transposon mutagenesis of coryneform bacteria," Mol. Gen. Genet. 245:397-405, Springer-Verlag, New York, NY (1994).
re. re.	AS	13	Wexler, I.D. et al., "Primary amino acid sequence and structure of human pyruvate carboxylase," Biochim. et Biophys. Acta 1227:46-52, Elsevier Publishing Co., Amsterdam, Netherlands (1994).
re. re.	AT	13	Yoshihama, M. et al., "Cloning Vector System for Corynebacterium glutamicum," J. Bacteriol. 162:591-597, American Society for Microbiology, Baltimore, MD (1985).

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R.R.	AR	14	NCBI Entrez, GenBank Report, Accession No. AF038548, Koffas, M.A.G. et al. (December 1997).		
R.R.	AS	14	NCBI Entrez, GenBank Report, Accession No. Z83018, Cole, S.T. et al. (June 1998).		
R.R.	AT	14	NCBI Entrez, GenBank Report, Accession No. Z97025, Kunst, F. et al. (June 1998)		
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re.	AR	15	Dialog File 351, Accession No. 12439413, Derwent WPI English language abstract for WO 99/18228.
	AS		
	AT		

EXAMINER R. Pinski	DATE CONSIDERED 3/29/04
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.